

#### ABSTRACT

[0064] A tuned vibration absorbing system (12) for a seat system (10) includes a flexible extension member (32) that is coupled to the seat system (10). A suspended element (34) is coupled to the flexible extension member (32). The flexible extension member (32) and the suspended element (34) are configured to absorb vibration within the seat system (10). A method of designing and manufacturing a seat system (10) includes designing the tuned vibration absorbing system (12) with the flexible extension member (32) and the suspended element (34) to absorb vibration within the seat system (10), which is then manufactured and coupled to the seat system (10).